

**ABSTRACT :**

- 5           The present invention relates to a process for the manufacture of PVDF homopolymer or copolymer by radical polymerization of vinylidene fluoride (VDF), and optionally of a comonomer, in aqueous dispersion and in the presence of a transfer agent, of a persulphate as radical initiator, optionally of a surface-active additive and optionally of a paraffin wax, in which:
- 10           a) sodium acetate is added, either at the start of or during or after the polymerization,
- b) a potassium alkylsulphonate is optionally added after the polymerization,
- c) an aqueous PVDF dispersion is obtained,
- 15           d) the PVDF is collected by atomizing the dispersion obtained in c) with air at a temperature of between 120 and 220°C, the aqueous dispersion obtained in c) not being washed with water before atomizing.